

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: G2-1802-569-21

Luminaire Tested: **203-FL-8LED4036-12-BK-LSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-21
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4036-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, FLUSH HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

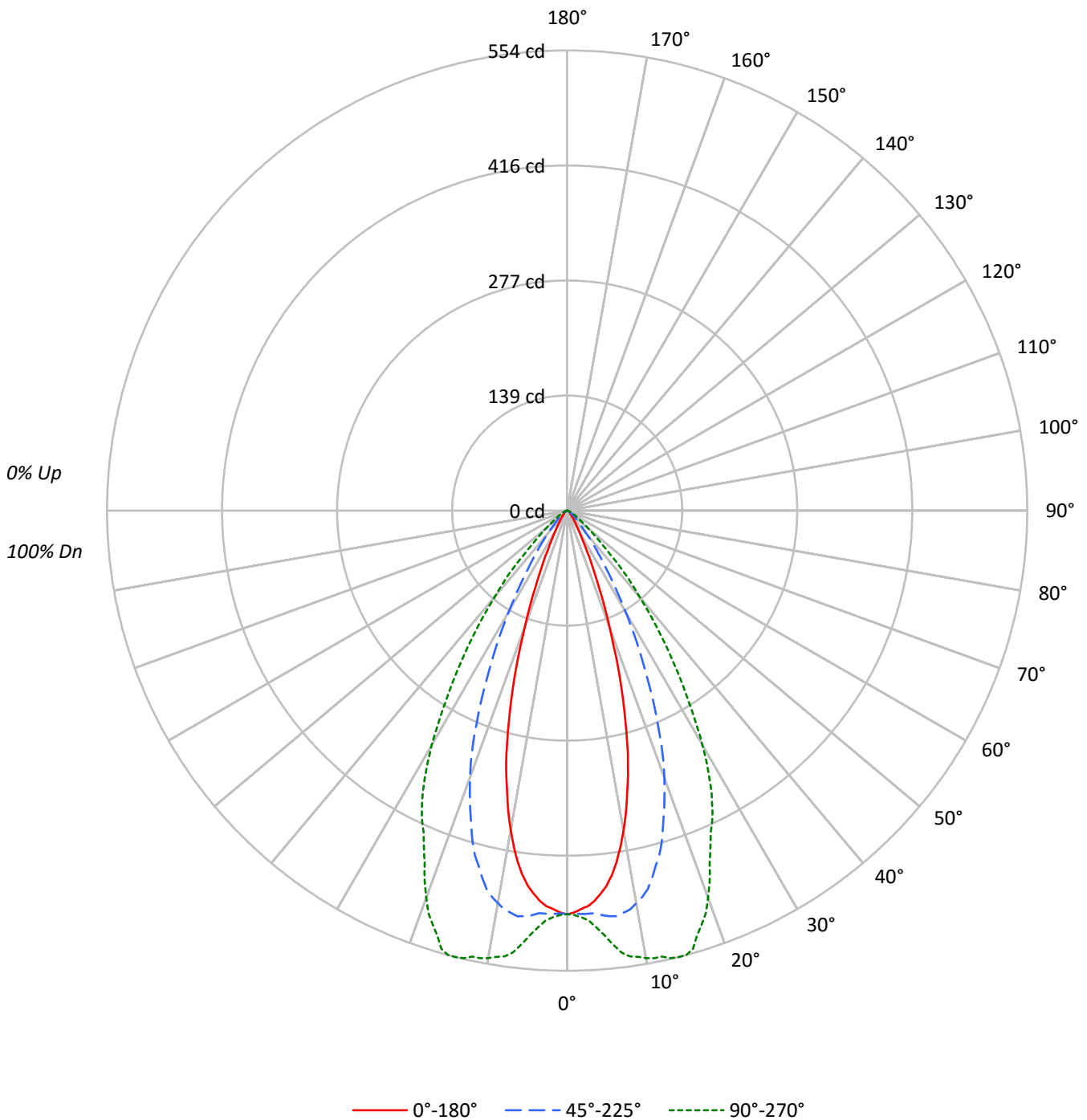
Lumens per Lamp: N/A
Luminaire Lumens: 371.1 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 1.08 / 0.77
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (A_{in}): 0.676
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-21
CATALOG NUMBER: 203-FL-8LED4036-12-BK-LSL

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-21

CATALOG NUMBER: 203-FL-8LED4036-12-BK-LSL

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87					87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81					81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76					76			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71					71			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59					59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55					55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	239782	239782	239782
5°	229307	242184	254071
10°	195887	240476	274042
15°	140466	219126	282974
20°	78757	179565	260422
25°	35929	128475	224831
30°	15952	79759	185724
35°	9035	43968	134314
40°	5797	23186	87592
45°	4186	12559	47447
50°	3838	8443	25330
55°	3441	6021	13763
60°	2960	3947	8881
65°	2335	3502	5837
70°	2885	2885	4328
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



TEST NUMBER: G2-1802-569-21

CATALOG NUMBER: 203-FL-8LED4036-12-BK-LSL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	12.5
10°-20°	115.4	31.1
20°-30°	108.8	29.3
30°-40°	63.8	17.2
40°-50°	24.1	6.5
50°-60°	8.1	2.2
60°-70°	3.3	0.9
70°-80°	1.2	0.3
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	270.5	72.9
0°-40°	334.3	90.1
0°-60°	366.5	98.8
0°-90°	371.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	463	471	489	507	513	42
15°	275	320	429	522	554	74
25°	66	96	236	373	413	32
35°	15	22	73	187	223	10
45°	6	9	18	52	68	5
55°	4	5	7	13	16	4
65°	2	3	3	4	5	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: G2-1802-569-21

CATALOG NUMBER: 203-FL-8LED4036-12-BK-LSL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	486	486	486	486	486
1°	484	484	485	486	487
2°	480	482	486	489	490
3°	477	480	486	491	494
4°	471	477	486	498	503
5°	463	471	489	507	513
6°	454	464	491	514	525
7°	442	454	492	524	536
8°	427	443	489	529	542
9°	410	431	486	530	544
10°	391	416	480	531	547
11°	371	400	474	529	549
12°	348	383	466	528	549
13°	326	363	454	526	553
14°	302	342	441	525	554
15°	275	320	429	522	554
16°	250	297	414	520	549
17°	224	272	395	513	535
18°	199	247	378	498	524
19°	172	221	360	481	513
20°	150	197	342	466	496
21°	129	172	323	451	479
22°	110	150	303	434	458
23°	92	129	279	414	441
24°	78	112	258	394	425
25°	66	96	236	373	413
26°	55	83	215	355	399
27°	46	70	195	339	383
28°	38	60	177	322	365
29°	32	50	158	305	346
30°	28	43	140	285	326
32.5°	20	30	102	237	272
35°	15	22	73	187	223
37.5°	12	17	52	143	178
40°	9	14	36	103	136
42.5°	8	11	25	73	103
45°	6	9	18	52	68
47.5°	5	7	14	37	46
50°	5	6	11	24	33
52.5°	4	5	9	17	22
55°	4	5	7	13	16
57.5°	4	4	5	10	12
60°	3	3	4	7	9
62.5°	3	3	4	5	6
65°	2	3	3	4	5



TEST NUMBER: G2-1802-569-21

CATALOG NUMBER: 203-FL-8LED4036-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2	2	2	3	4
70°	2	2	2	2	3
72.5°	1	1	1	2	2
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)